Contents

Karl Schwarzschild Lecture:
The Road to Earth Twins
By Michel Mayor, Christophe Lovis, Francesco Pepe,
Damien Sègransan and Stèphane Udry
(With 4 Figures)
Ludwig Biermann Award Lecture:
Stellar Forensics with the Supernova-GRB Connection
By Maryam Modjaz (With 5 Figures)
Doctoral Thesis Award Lecture:
Accretion, jets and winds: High-energy emission from young stellar objects
By Hans Moritz Günther (With 8 Figures)
The physics and astrophysics of supernova explosions
By Wolfgang Hillebrandt (With 7 Figures)
The Facility for Antiproton and Ion Research.
A new era for supernova dynamics and nucleosynthesis
By Karlheinz Langanke (With 15 Figures)
The Bar and Spiral Structure Legacy (BeSSeL) survey:
Mapping the MilkyWay with VLBI astrometry
By Andreas Brunthaler, Mark J. Reid, Karl M. Menten, Xing-Wu Zheng,
Anna Bartkiewicz, Yoon K. Choi, Tom Dame, Kazuya Hachisuka,
Katharina Immer, George Moellenbrock, Luca Moscadelli, Kazi L.J. Rygl,
Alberto Sanna, Mayumi Sato, Yuanwei Wu, Ye Xu, and Bo Zhang
(With 2 Figures)
On the origin of gaseous galaxy halos –
Low-column density gas in the Milky Way halo
By Nadya Ben Bekhti, Benjamin Winkel, Philipp Richter,
Jürgen Kerp, and Ulrich Klein
(With 6 Figures)
Radio studies of galaxy formation: Dense Gas History of the Universe
By Chris L. Carilli, Fabian Walter, Dominik Riechers, Ran Wang,
Emanuele Daddi, and Jeff Wagg,
Frank Bertoldi, and Karl Menten (With 21 Figures)



General Index of Contributors	260
General Table of Contents	245
Index of Contributors	243
of embedded planets By Sebastian Wolf	237
Characteristic structures in circumstellar disks – Potential indicators	
Star formation at High Resolution, Zooming into the Carina nebula, the nearest laboratory of massive Star feedback By Thomas Preibisch (With 2 Figures)	223
High-energy astrophysics By Martin Pohl (With 7 Figures)	207
Massive black holes and the evolution of galaxies By Marta Volonteri and Jillian Bellovary (With 6 Figures)	189
Light-element abundance variations in globular clusters By Sarah L. Martell	173
Water in star-forming regions with Herschel By Lars E. Kristensen and Ewine F. van Dishoeck (With 6 Figures)	159
Water in star-forming regions with Herschel By Lars E. Kristensen and Ewine F. van Dishoeck	